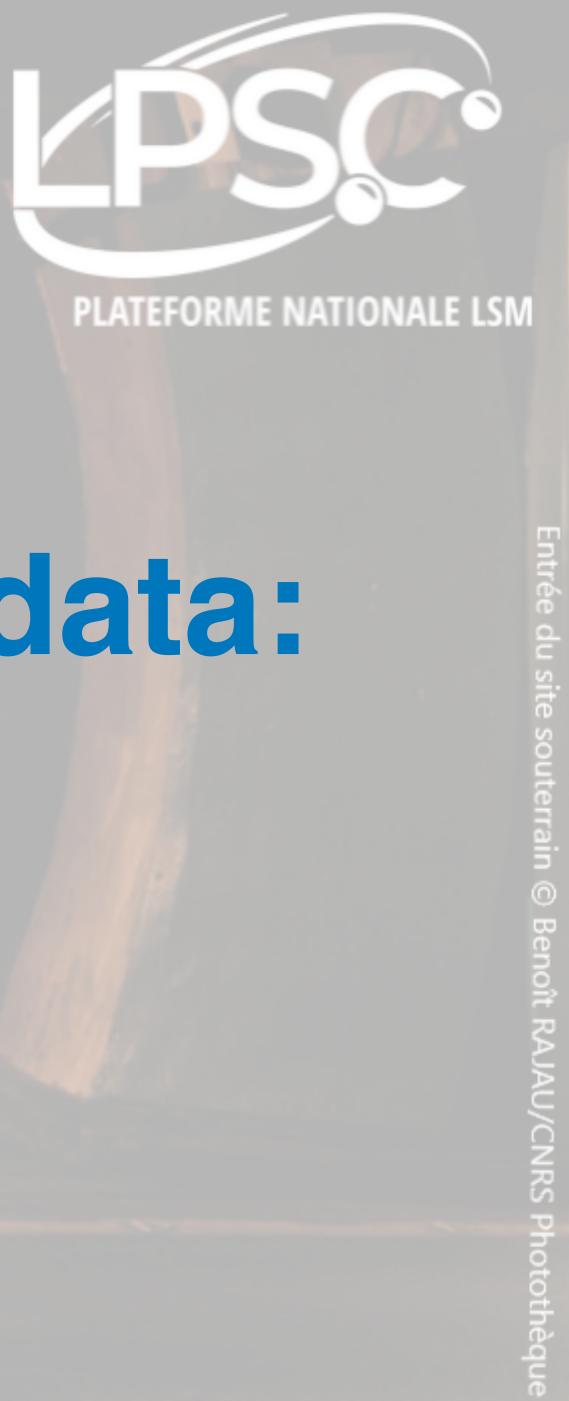
DUL Directors Meeting 2023.08.31

Exchanging and collecting data: radio-purity assay

Silvia Scorza **CNRS/LPSC**



COMMUNITY MATERIAL ASSAY DATABASE

A system for record-keeping A place for sharing assay results

http://radiopurity.org



Community tool used by several experiments Originally from the AARM collaboration Nuclear Instruments and Methods in Physics Research A 839 (2016) 6–11

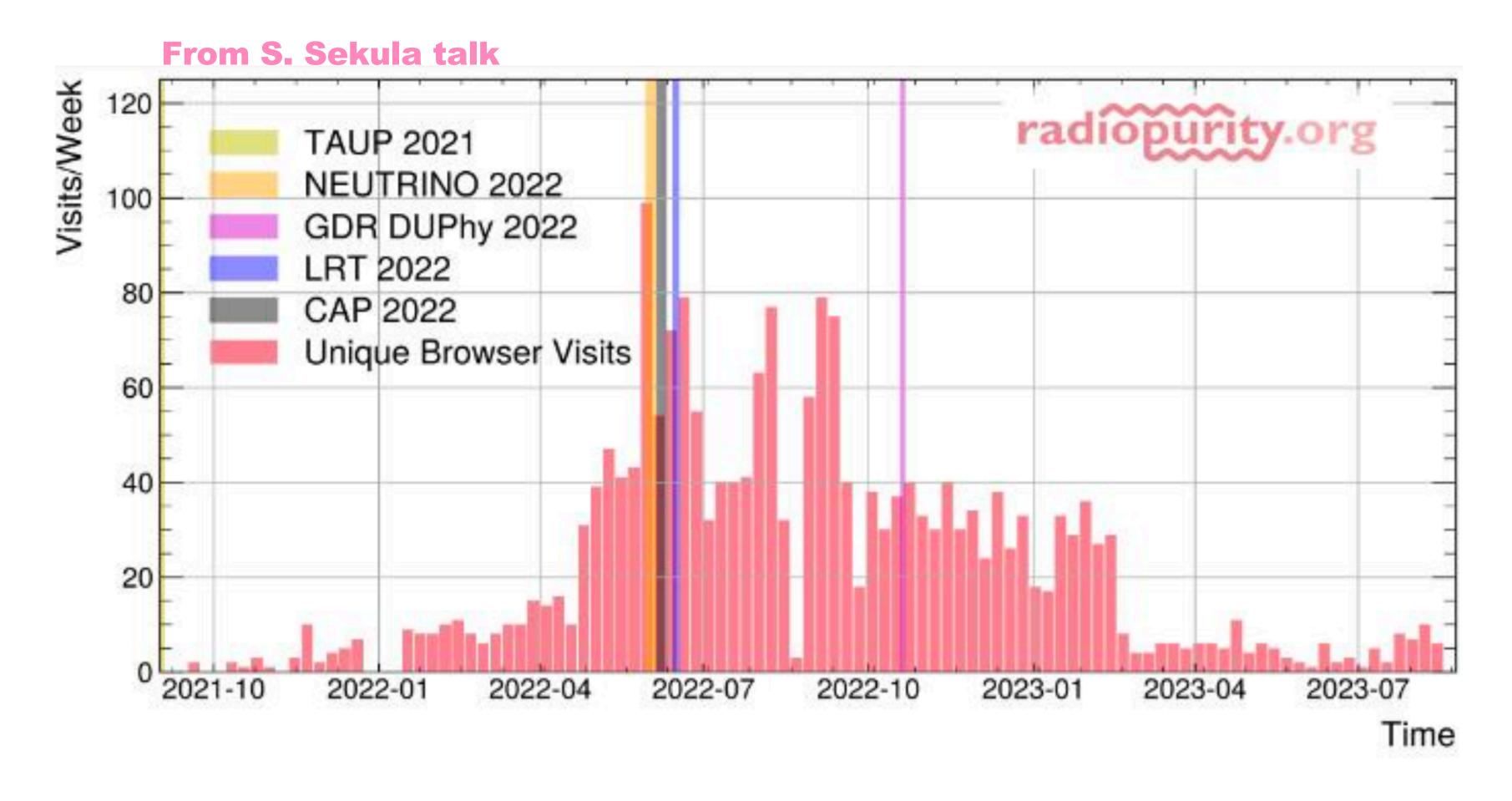
WISHLIST

- Adding more data to the database
 - Flexible process to upload data
 - Sharing is the key
- **Possibility to create a private** instance for each lab running screening detectors
- Need to push forward a community effort to cross-calibrate detectors among underground labs

Open source code: https://github.com/pnnl/Radiopurity-database-assistant



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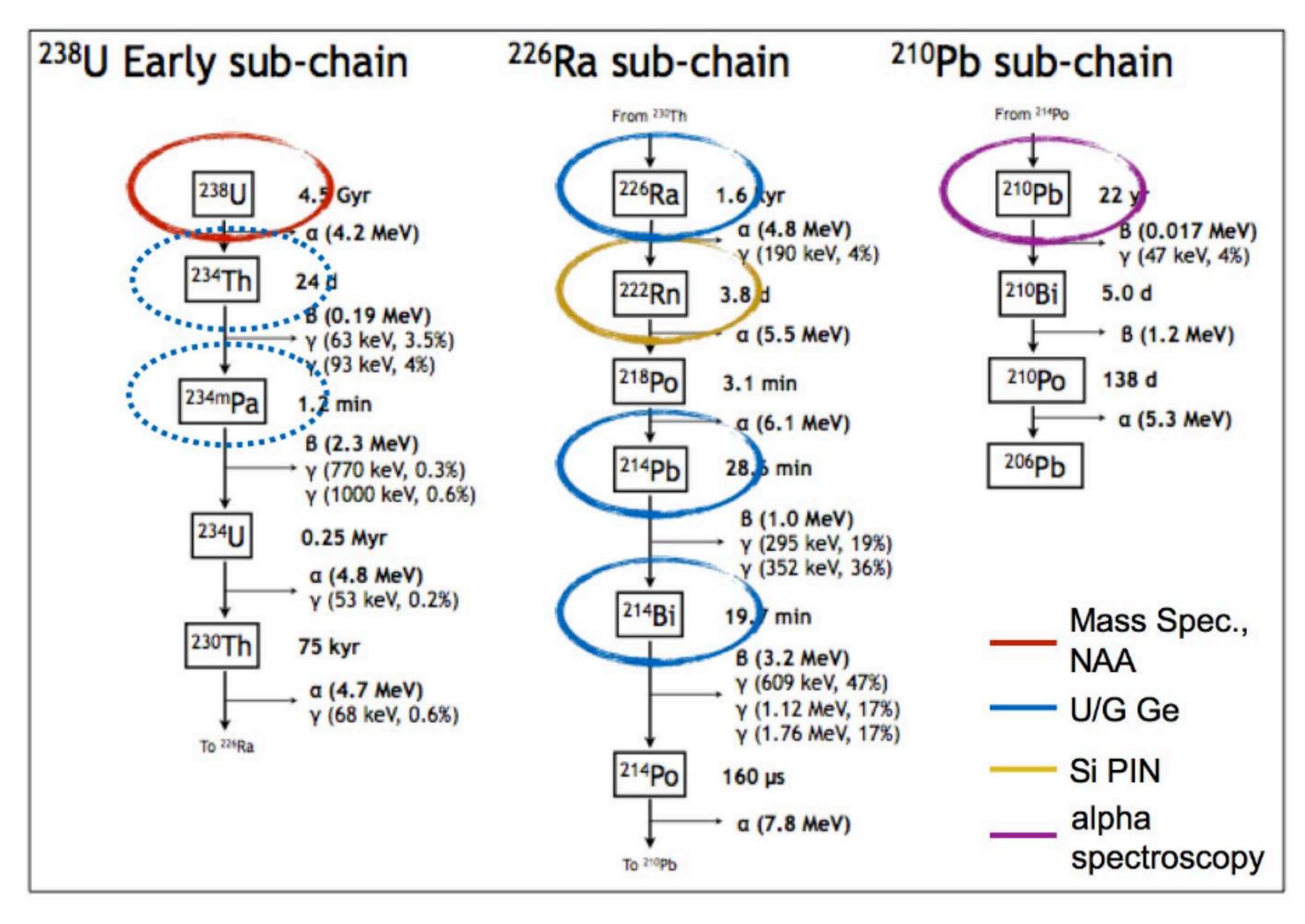
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Details about database see S. Sekula talk **"Upgrading** Radiopurity.org: a **Community Material** Assay Database" on Monday 28.08 @18:15





WHAT FUTURE SCREENING IS NFFNFN?





New screening techniques might be required as the current ones are already not enough in sensitivities



WHAT SPECIALTY GLEANING ?

Surface contamination will add radioactive background to the background budget

Some speacialty cleaning might be required:

- Ultrasonic bath
- Etching + passivation for copper, metals
- Electroplating
- Leaching for plastic/glass materials

What recipes are already in use, what labs are available to the community?









